StorCase® Technology

Data Express® DE50

Removable Ultra ATA100 Enclosure

User's Guide

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Removable Ultra ATA100
Drive Enclosure

User's Guide

Part No. P89-0000-0167 E00 April 2006

Kingston Technology Affiliate
StorCase® TECHNOLOGY
Safest Place for Your Data®

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StorCase TECHNOLOGY

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Declaration of Conformity

Company Name:	StorCase Technology, Inc.
Corporate Office Address:	17600 Newhope Street Fountain Valley, CA 92708
Manufacturing Address:	17600 Newhope Street Fountain Valley, CA 92708
Product Name:	Data Express DE50
Model Number:	S20B120, S20B121, S20B122, S21B106, S21B107, S21B108, S21B119, S21B120, S21B121

Conforms to the following standards:

EMC Directives: **(89/336/EEC)**	EN 50081-1: 1992 Generic Emission - EN 55022/CISPR22 Class B - EN 61000-3-2 - EN 61000-3-3 EN 55024: 1998 Generic Immunity - EN 61000-4-2 - EN 61000-4-6 - EN 61000-4-3 - EN 61000-4-8 - EN 61000-4-4 - EN 61000-4-11 - EN 61000-4-5
Safety Standards: **CSA (NRTL/C)**	CAN/CSA-C22.2 No. 950-95 UL 1950
TUV	EN 60950: 1992 EN 60950/A2: 1993 EN 60950/A1: 1993 EN 60950/A3: 1995
EMI Standards:	FCC Part 15, Class B
EMC Standards:	AS/NZS 3548 Information Technology Equipment
Year of Manufacture:	2001

Signature: _____

Full name: Dieter Paul

Position: President

Table of Contents

INTRODUCTION 1
Packaging Information 1
Serial Numbers 1
Package Contents 2
General Description 3
Receiving Frame Front Panel 4
Drive Carrier 5
Receiving Frame Rear Panel 6

INSTALLATION 7
Preparation 7
Drive Installation 7
Installing the Receiving Frame 12
Selecting the Unit ID Number 14
Unit ID Select Switch Settings 15
AT/IDE Interface Connector JP1 16

APPENDICES 17
Appendix A - Specifications/Dimensions 18
Appendix B - Optional Accessories 22
USB 2.0 External Adapter Kit 22
Carry Case 23

Reader's Comments 25

List of Figures

Figure 1: Package Contents 2
Figure 2: DE50 Receiving Frame and Carrier 3
Figure 3: Receiving Frame Front Panel 4
Figure 4: Receiving Frame Unit ID Number and Activity Display 5
Figure 5: Receiving Frame Motherboard (Rear View) 6
Figure 6: Disassembling the Drive Carrier Unit 7
Figure 7: Drive Carrier Components 8
Figure 8: Drive Carrier Circuit Board Installation 8
Figure 9: Drive Carrier Circuit Board 10
Figure 10: Drive Mounting Bracket Installation 11
Figure 11: Installing the 5.25" Adapter Bracket 12
Figure 12: Adapter Bracket Mounting Holes for 5.25" Peripheral Slots 13
Figure 13: Receiving Frame Mounting Holes for 3.5" Peripheral Slots 13

Figure A-1: DE50 Physical Dimensions 20
Figure B-1: USB 2.0 External Adapter Kit 22
Figure B-2: Carry Case 23

List of Tables

Table 1: Unit ID Select Switch Settings 15
Table 2: AT/IDE Interface Signals 16

NOTICE: This User's Guide is subject to periodic updates without notice. While reasonable efforts have been made to ensure the accuracy of this document, StorCase Technology, Inc. assumes no liability resulting from errors or omissions in this publication, or from the use of the information contained herein.

Please check the StorCase web site at http://www.storcase.com or contact your StorCase representative for the latest revision of this document.

INTRODUCTION

Packaging Information

The StorCase Technology Data Express® system is shipped in a container designed to provide protection and prevent damage during shipment. The Data Express unit was carefully inspected before and during the packing procedure at the factory. Bent or broken connectors, or evidence of other damage to the Data Express should be reported to the shipper immediately. Refer to Figure 1 for the package contents.

If the wrong Data Express model has been received, please call your reseller or StorCase at (800) 435-0642 to arrange for a Return Material Authorization (RMA). StorCase cannot accept returns which do not display an RMA number on the outside of the package. Return the unit with all the original packing materials.

Before removing any component from its packaging, discharge any static electricity by touching a properly grounded metal object.

Serial Numbers

Both the DE50 receiving frame and carrier are labeled with serial numbers. These numbers must be reported to the StorCase Customer Service Representative in order to receive a Return Material Authorization (RMA) for warranty claims. Locate the serial number labels and record the numbers in the spaces provided below.

Receiving Frame: _____

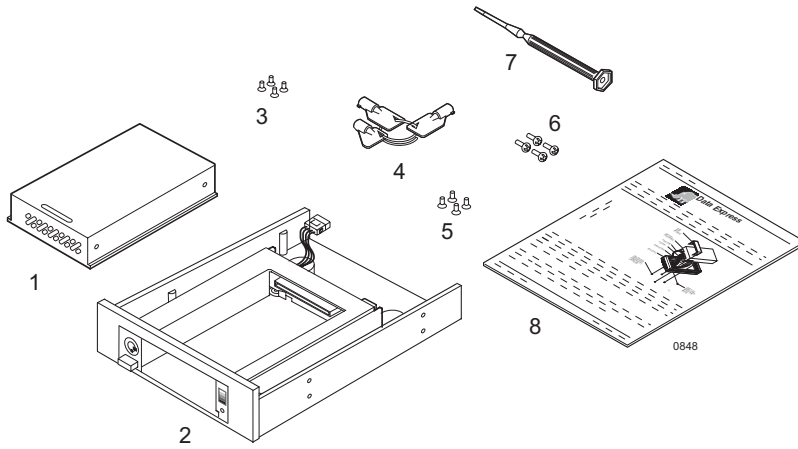
Device Carrier: _____

Package Contents

NOTES: Package contents may vary, depending on model.

Some DE50 models do not include a 5.25" adapter bracket.

The DE50 package contents include the following items. If any item is missing or damaged, contact your StorCase dealer for a replacement.



1. Drive Carrier
2. Receiving Frame (shown with 5.25" Adapter Bracket installed)
3. M3 Phillips Flat Hd. Screws
4. Drive Lock Keys
5. Self-Tapping Screws
6. M3 Phillips Pan Hd. Screws
7. Alignment Tool
8. Insert Sheet

Figure 1: Package Contents

General Description

NOTE: For Ultra ATA100 (100MByte/sec) operation, an Ultra ATA100 controller and hard drive(s), and appropriate 40-pin, 80-conductor cable are required.

The StorCase Technology Parallel ATA **Data Express® DE50** is a removable drive carrier and receiving frame, designed to provide durable and reliable mounting for one (1) 2.5" Ultra ATA100 drive within a 3.5" or 5.25" peripheral slot (with factory-installed adapter bracket). It is downward compatible with earlier technology IDE drives.

The PATA DE50 allows a drive to be removed and transported to another PATA DE50-equipped computer or expansion chassis, and also provides the ability to secure sensitive data by removing and storing the drive safely for future use.

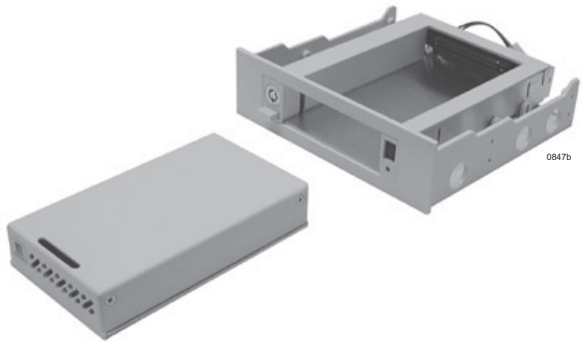


Figure 2: DE50 Receiving Frame and Carrier (shown with 5.25" Adapter Bracket installed)

This User's Guide describes the steps required to install the DE50 removable enclosure inside a computer peripheral bay or external expansion chassis. This guide supplements documentation provided with the host computer system, operating system, and the drive to be installed within the carrier.

Receiving Frame Front Panel

(Figure 3)

- **Unit ID Number Indicator** - This LED displays the physical address of the DE50 device carrier if the carrier is *Installed and Locked* in the receiving frame *or* if the carrier is *removed* from the receiving frame. If the carrier is *Installed but not Locked* in the receiving frame, a "u" will be displayed to indicate an unlocked condition. The unit ID number is selected by means of the unit ID select switch on the front of the receiving frame using a special alignment tool supplied with the DE50.

- **The Activity Indicator** - A small dot next to the unit ID number illuminates to indicate when the host computer is accessing the data on the DE50 carrier. This dot will flash during communication with the host computer.

- **Unit ID Select Switch** - This rotating switch selects the unit ID number of the disk drive.

- **Key Lock/Drive Power Switch** - Performs three functions. The key switch as-sures proper seating of the drive carrier within the receiving frame, turns power to the drive carrier ON and OFF, and prevents unauthorized removal or installation of the carrier. For the computer to access data on the disk drive, the key must be turned counterclock-wise to the locked position.

- **Eject Button** - Push to eject drive carrier from receiving frame.

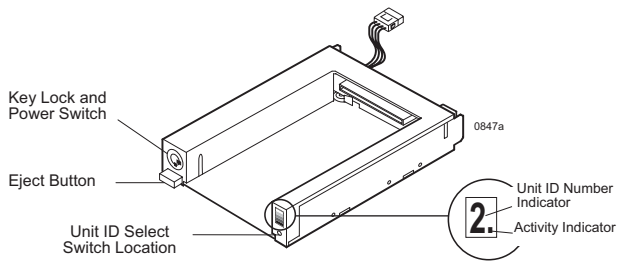


Figure 3: Receiving Frame Front Panel

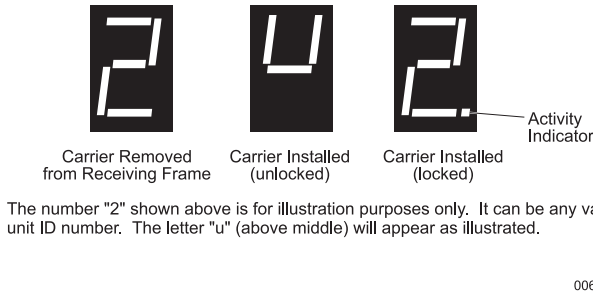


Figure 4: Receiving Frame Unit ID Number and Activity Display

Receiving Frame Rear Panel

(Figure 5)

- **I/O Connector (JP1)** - The input/output connector provides a standard interface for all IDE signals.
- **DC Power Connector (P1) -** A standard 4-pin DC power connector is used to accept DC power.
- **Master/Slave Selection Jumper (J2)** - Master Drive configuration (Factory De fault). Change jumper position to set Slave Drive configuration (Figure 5).

  Forces master/slave drive configuration on the receiving frame if JMP1 jumper option (located on the drive carrier circuit board) is configured to *Cable Select* (refer to section "*Installation*" for further information).

  If using the *Drive Select Method*, this option is instead used to configure the unit ID display (refer to page 9 for further information).

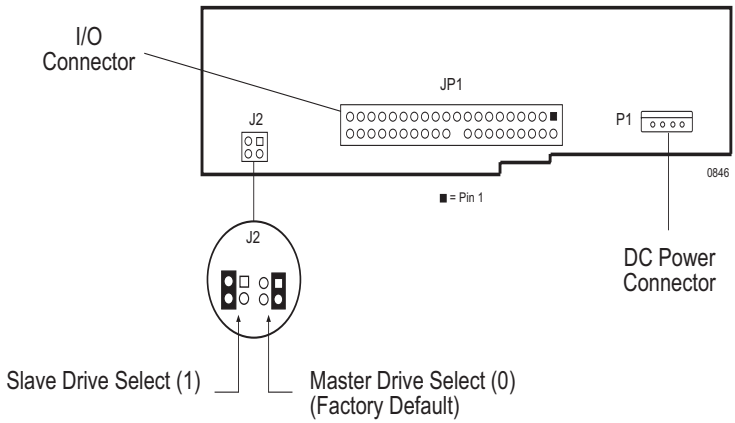


Figure 5: Receiving Frame Motherboard (Rear View)

INSTALLATION

NOTE: A #1 Phillips screwdriver will be required during this procedure.

Preparation

While performing the steps in this section, work on a soft surface to prevent excessive shock to the drive being installed. Also refer to the manufacturer's documentation provided with the drive.

1. Remove the drive from its protective packaging.

2. **Plastic Drive Bezel:** If the drive came equipped with a plastic front bezel, it must be removed before installing the drive into the drive carrier.

3. **Master/Slave Drive Selection:** The DE50 will be factory-configured as a Master Drive using a jumper plug on the DE50 receiving frame motherboard (Figure 5). This configuration is based on typical drive specifications.

   For multiple drive configurations, it is necessary to set the first Ultra ATA100 drive as Master and the second Ultra ATA100 drive to Slave. In most cases, this can be done by changing the jumper position on the DE50 receiving frame motherboard (refer to page 9 of this User's Guide and the drive manufacturer documentation for further information).

   NOTE: Since specifications (specifically, pin assignments) between drive manufacturers may vary, please refer to *your* drive manufacturer's documentation for information regarding Master/Slave configuration.

Drive Installation

1. Loosen and remove the four (4) M3 Phillips Flat Hd. screws located on the drive carrier unit (Figure 6). Save these screws for Step 6.

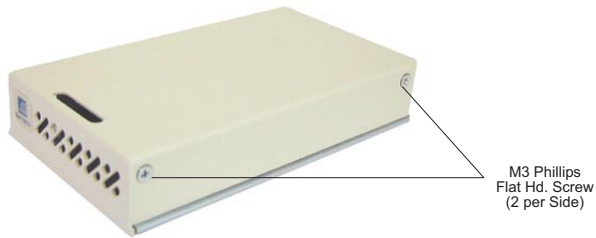


Figure 6: Disassembling the Drive Carrier Unit

2. Disassemble the drive carrier unit into its three (3) main components as shown in Figure 7 (the drive carrier unit is shipped pre-assembled).

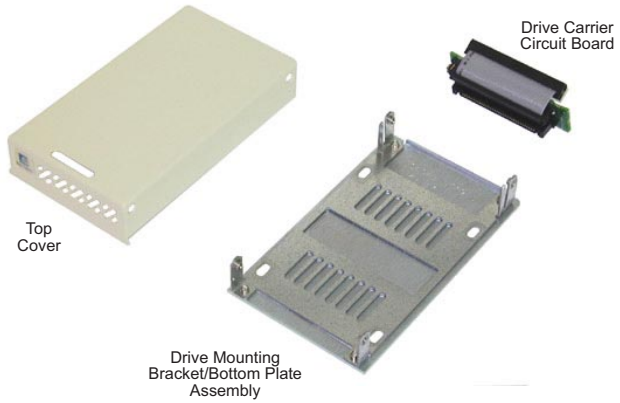


Figure 7: Drive Carrier Components

3. Install the Drive Carrier Circuit Board (cable-side down) onto the drive by attaching the I/O cable on the board to the drive (Figure 8).

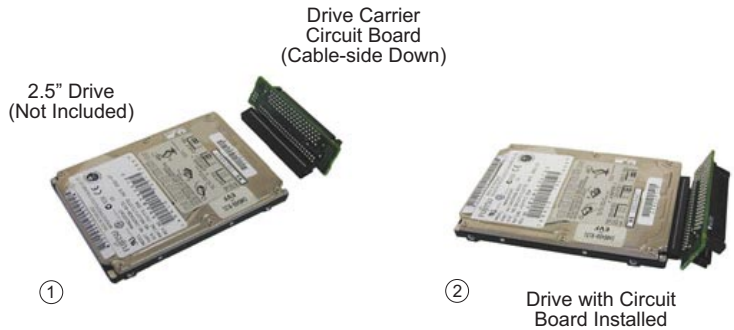


Figure 8: Drive Carrier Circuit Board Installation

NOTE: The information below is based on *typical* drive specifications. Since specifications (specifically, pin assignments) between drive manufacturers may vary, please refer to *your* drive manufacturer's documentation for information regarding Master/Slave configuration.

4. There are two ways to set the Master/Slave drive designation for the DE50 unit, as described below.

Cable Select Method *(Recommended Method):* In most cases, there is no need to reconfigure the jumper on JMP1 located on the rear of the drive carrier circuit board (Figure 9). A jumper factory-installed on Pins B & D forces the drive into a Cable Select configuration.

With Cable Selection, the Master/Slave Drive designation is handled by the Master/Slave Selection Jumper Option (J2) on the receiving frame motherboard (Figure 5). If necessary, reconfigure jumper (jumper is factory-configured for Master Drive designation). *Skip method below and continue with Step 5 of the Installation process.*

Drive Select Method: In most cases, this method forces the drive into either a Master or Slave Drive configuration.

This method will override any configuration of the Master/Slave Selection Jumper Option (J2) on the receiving frame motherboard. The J2 jumper option is instead used to configure the unit ID display (refer to Table 1 for further information).

Master Drive: Remove the jumper from JMP1. Typically, no jumper installed on JMP1 forces the carrier into a Master Drive configuration (Figure 9).

Leave the J2 jumper option as is for Master Drive IDdisplay purposes (jumper is factory-configured for Master Drive designation).

Slave Drive: Install the jumper on JMP1 Pins C & D (Figure 9). Typically, a jumper installed on Pins C & D forces the drive into a Slave Drive configuration (refer to the drive manufacturer's documentation for exact master/slave jumper settings and reconfigure the jumper as necessary).

Configure the J2 jumper option for Slave Drive ID display purposes (Figure 5).

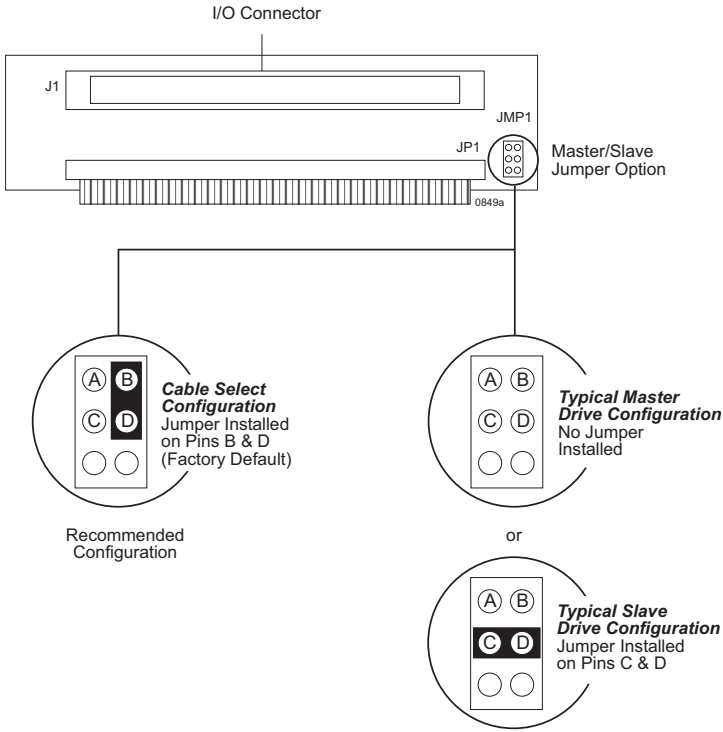


Figure 9: Drive Carrier Circuit Board

5. Carefully turn the drive/circuit board assembly upside-down (drive is bottom-mounted into bracket). Install the mounting bracket/bottom plate assembly and secure with four (4) M3 screws (provided) as shown in Figure 10.

NOTE: Make sure that the drive circuit board is properly seated in the mounting bracket slot before tightening screws.

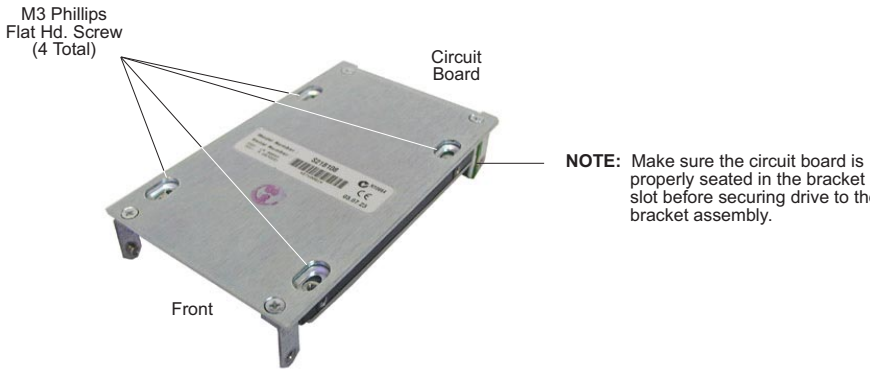

M3 Phillips
Flat Hd. Screw
(4 Total)
Circuit
Board
NOTE: Make sure the circuit board is properly seated in the bracket slot before securing drive to the bracket assembly.
Front

Figure 10: Drive Mounting Bracket Installation

6. Carefully insert the drive/bracket assembly into the top cover and secure with four (4) M3 screws (saved from Step 1) as shown in Figure 6.

Installing the Receiving Frame

NOTES: Use a #2 Phillips screwdriver for this procedure.

Some DE50 models do not include a 5.25" adapter bracket.

The drive should be installed into the carrier before installing the receiving frame into the mounting bay of a computer or expansion chassis.

1. Turn OFF power to the computer.

2. Open the computer system according to the manufacturer's instructions. If necessary, temporarily remove any expansion boards that may make installation difficult.

3. For 5.25" peripheral slots, the 5.25" adapter bracket must be installed. The receiving frame is side-mounted into the adapter bracket using four (4) M3 Phillips Pan Head screws (provided), as shown in Figure 11.

   With the drive carrier locked in place inside the receiving frame, install the DE50 into the 5.25" drive opening in the computer or expansion chassis. Use the appropriate guides to position the Data Express, and fasten it into place with four (4) self-tapping screws provided. Mounting holes are provided on each side and the bottom of the adapter bracket to accomodate a variety of mounting configurations. Use the mounting holes which best suit the computer or expansion chassis configuration (Figure 12).

4. Adjust the front of the receiving frame so the carrier slides freely in and out on the receiving frame guides. The position of adjoining peripheral units may require adjustment.

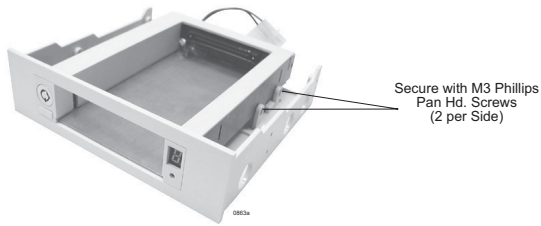


Figure 11: Installing the 5.25" Adapter Bracket

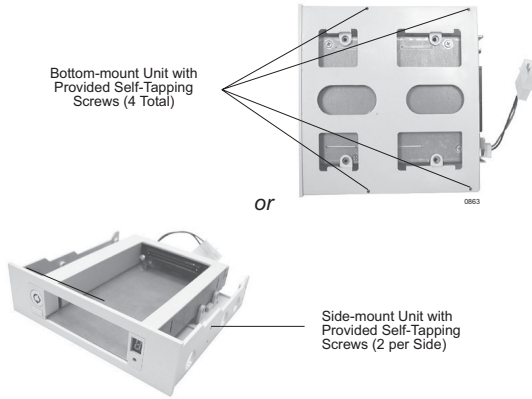


Figure 12: Adapter Bracket Mounting Holes for 5.25" Peripheral Slots

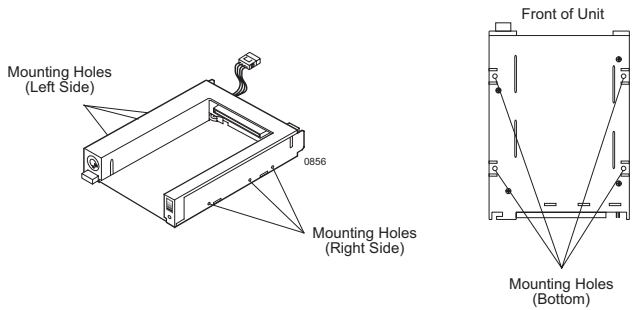


Figure 13: Receiving Frame Mounting Holes for 3.5" Peripheral Slots

5. Connect the I/O cable from the host adapter to the receiving frame. The Pin 1 indicator on the cable must be properly aligned. Refer to Figure 5 for the correct Pin 1 location.

6. Connect the power cable from the DC power supply in the computer or expansion chassis to the power connector on the DE50 receiving frame. Refer to Figure 5 for the DE50 receiving frame power connector location.

7. Replace any expansion boards that may have been removed earlier. Replace the system cover according to the manufacturer's instructions.

8. Reconnect any system or peripheral cables removed earlier.

9. Turn ON power to the computer. If the installation has been successful, and all the cables have been properly attached, the system should boot normally. Although the computer may not recognize the DE50 yet, the front panel display on the DE50 receiving frame should illuminate.

10. The new drive may need to be formatted or initialized prior to use with the operating system and applications software. Refer to the drive and/or computer manufacturer's documentation for formatting information.

Selecting the Unit ID Number

1. Verify that power is turned ON to the DE50 receiving frame by turning on the computer. A number will appear in the unit ID display window if the carrier is locked in place.

2. Unlock the DE50 drive carrier and remove it from the receiving frame. A "u" will be displayed initially when the unit is unlocked but will return to a number when the carrier is removed from the receiving frame.

   WARNING: Unlocking the carrier unit switches DC power off to the drive. Since disk drives require a short amount of time to spin down, allow about 15 seconds before pulling the carrier unit out of the receiving frame to avoid possible damage to the drive.

3. Use the alignment tool supplied with the DE50 to select the ID number of the disk drive. Refer to Figure 3 for the location of the ID Select Switch on the receiving frame. Table 1 lists the valid unit ID numbers available for the drive.

   NOTE: The unit ID number display is for ID display purposes only. The master/slave setting must still be set on the DE50 unit itself (refer to page 9 of this User's Guide for further information).

4. After you have selected an appropriate unit number, replace the DE50 carrier in the receiving frame, and **LOCK IT IN PLACE**.

NOTE: The lock on the DE50 receiving frame functions as a lock and a DC power switch for the carrier unit. The lock must be engaged in order to supply power to the carrier and installed drive.

5. Reboot the computer. The new disk is now ready for use, although it may have to be formatted or initialized prior to use with your operating system and applications software.

Unit ID Select Switch Settings

NOTE: The unit ID number display is for ID display purposes only (when using the Drive Select Method). The master/slave setting must still be set on the DE50 unit itself (refer to page 9 of this User's Guide for further information).

The following table lists the Unit ID Select Switch settings and the valid AT/IDE unit numbers. Please note that all invalid switch settings have X's through them and result in a blank display in the receiving frame display window.

Table 1: Unit ID Select Switch Settings

Unit ID Select Position	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
Drive Selection	X	Master	Slave	X	X	Master	Slave	X	X	X
Unit ID Number Display	Blank	0	1	Blank	Blank	2	3	Blank	Blank	Blank

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AT/IDE Interface Connector JP1

The AT/IDE Interface Connector (JP1) pin assignments are as follows:

Table 2: AT/IDE Interface Signals

Pin	Signal	I/O	Pin	Signal	I/O
01	Host Reset-	O	02	Ground	
03	Host Data 7	I/O	04	Host Data 8	I/O
05	Host Data 6	I/O	06	Host Data 9	I/O
07	Host Data 5	I/O	08	Host Data 10	I/O
09	Host Data 4	I/O	10	Host Data 11	I/O
11	Host Data 3	I/O	12	Host Data 12	I/O
13	Host Data 2	I/O	14	Host Data 13	I/O
15	Host Data 1	I/O	16	Host Data 14	I/O
17	Host Data 0	I/O	18	Host Data 15	I/O
19	Ground		20	Key	No Pin
21	Reserved		22	Ground	
23	HIOW-	O	24	Ground	
25	HIOR-	O	26	Ground	
27	Reserved		28	Reserved	
29	Reserved		30	Ground	
31	IRQ 14	I	32	Host IO16-(AT)	I
33	Host ADDR 1	O	34	PDIAG- (16)	Notes
35	Host ADDR 0	O	36	Host ADDR 2	O
37	Host CS0-	O	38	Host CS1-	O
39	DASP-	Notes	40	Ground	

- Indicates an active-low signal.
Signal direction is with respect to the host.
"I" indicates *To* the host
"O" indicates *From* the host
The PDIAG and DASP signals are used for communication between master and slave.

APPENDICES

Appendix A - Specifications/Dimensions

The following specifications and dimensions apply to both ruggedized and non-ruggedized versions of the DE50. Specifications and dimensions are for reference only.

Environmental Specifications	Operating	Storage
Ambient Temperature	0° C to 40° C	-40° C to 70° C
Relative Humidity (1)	10% to 80%	10% to 90%
Altitude	-1000 to 10,000 ft	-1000 to 40,000 ft
	-305m to 3048m	-305m to 12195m
Shock (2)	10g	60g

(1) Non-condensing with maximum gradient of 10% per hour.

(2) 11 msec pulse width 1/2 sine wave.

Physical Specifications	Carrier	Receiving Frame
Height	0.95” (24.1mm)	1.01” (25.7mm)
Width	2.96” (75.2mm)	3.71” (94.2mm)
Depth	5.04” (128.0mm)	5.65” (143.5mm)
Weight	0.9lb (0.41kg)	0.9lb (0.41kg) (1)

(1) With carrier removed.

Chassis Reliability/Maintainability	
MTBF	500,000 Hours
MTTR	5 minutes
Preventive Maintenance	None

Electrical Specifications		
Input	+5V	65mA

0860

The following specifications apply to the *ruggedized* version of the DE50 (P/N S20B120) only.

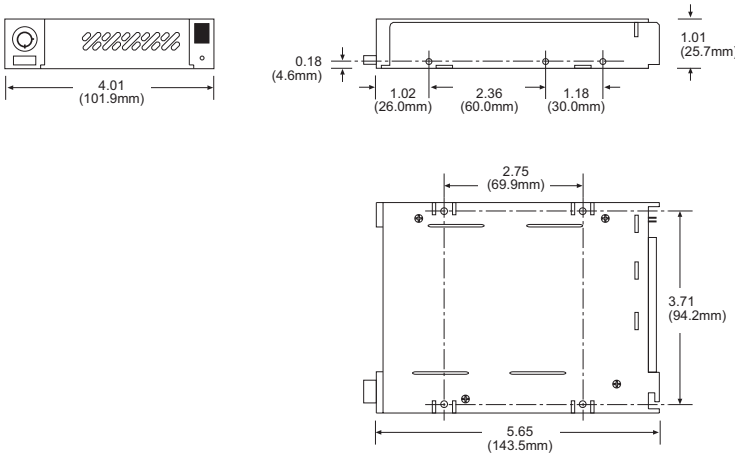
Contact StorCase for further information regarding this particular DE50.

Vibration Specifications	**Operating**	**Storage**
Frequency	5 to 500 Hz	5 to 500 Hz
Acceleration	0.3 g	2.4 g
X, Y, Z axis	Random	Random
Duration	10 min. per axis	10 min. per axis

Shock Specifications	**Operating**
Duration	< 3ms
Acceleration	125 g

0860A

Receiving Frame
with Carrier Installed



Carrier
Only

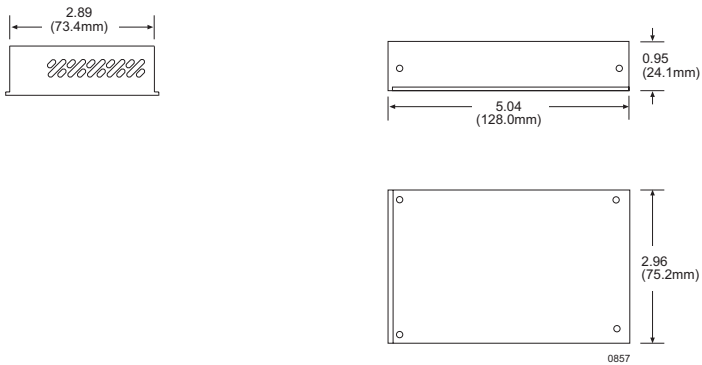


Figure A-1: DE50 Physical Dimensions
(Dimensions are for reference only)

5.25” Adapter Bracket

NOTE: Some DE50 models do not include a 5.25” adapter bracket.

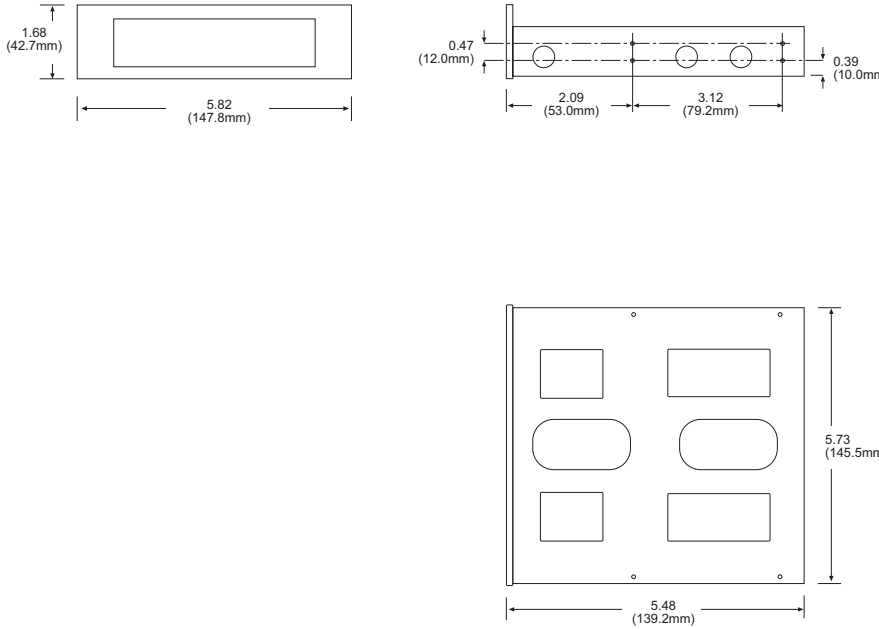


Figure A-2: DE50 Adapter Bracket Physical Dimensions (Dimensions are for reference only)

Appendix B - Optional Accessories

DE50 USB 2.0 Docking Station

The Data Express DE50 USB 2.0 Docking Station (P/N S21B124) allows a PATA DE50 drive carrier to be docked for external use with a PC.

Kit comes with carrier dock and split-USB 2.0 cable. An AC Power Adapter (P/N S21B129) and International Power Adapter Converter Kit (P/N S21B128) is available as an option. Contact StorCase for further ordering information.

Figure B-1: DE50 USB 2.0 Docking Station

Carry Case

The optional molded plastic carrying case (P/N S20E104) is designed to transport one (1) DE50 carrier from one site to another in a safe, impact and moisture-resistant environment. Its compact dimensions, 10" long x 11" wide x 4.5" high, make it easy to carry and to store. The foam lining is contoured to fit a single Data Express carrier. Contact your StorCase dealer for further details and ordering information.

Figure B-2: Carrying Case

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Reader's Comments

Please take a few moments when your computer system is up and running to send us your ideas and suggestions for improving our products and documentation. Did the installation go smoothly for you? Are there any changes you would like us to make, either with the hardware itself, or with the installation instructions? Everyone at StorCase Technology is working toward the goal of providing you with the highest quality, most cost effective, products available on the market, and we need your comments to guide our efforts. We look forward to hearing from you soon!

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